

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: SABINA GAZI Examiner #: 74141 Date: 4/10/08
 Art Unit: 1616 Phone Number: 20622 Serial Number: 10/816,611
 Mail Box and Bldg/Room Location: 4A.45 Results Format Preferred (circle) PAPER DISK E-MAIL

4c7p Rem.
 If more than one search is submitted, please prioritize searches in order of need.

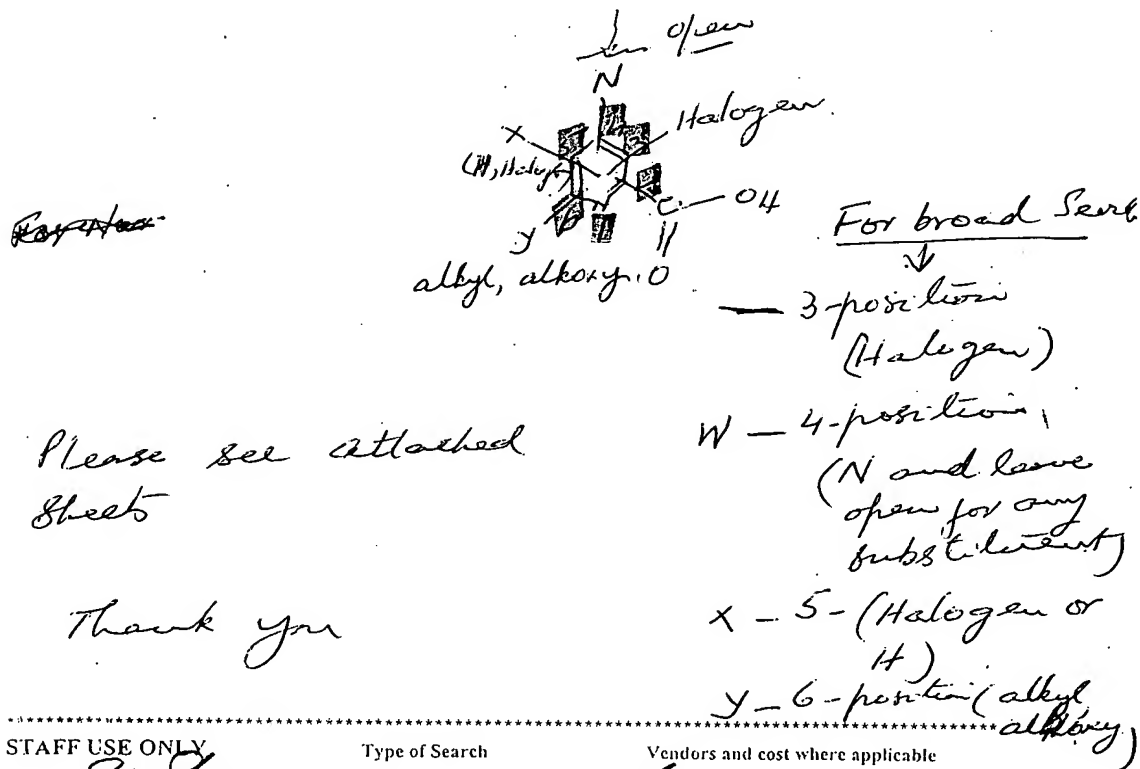
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of invention: 6- alkyl or alkynyl 4-amino-picolinate

Inventors (please provide full names): Terry Williams Balko et al
DOW AGROSCIENCES

Earliest Priority Filing Date: 4/2/2003 (60/459,892)

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.



Please see attached sheets

Thank you

STAFF USE ONLY

Searcher: <u>Sahar</u>	Type of Search	Vendors and cost where applicable
Searcher Phone #: _____	NA Sequence (#) _____	STN <input checked="" type="checkbox"/>
Searcher Location: _____	AA Sequence (#) _____	Dialog _____
Date Searcher Picked Up: <u>5/5/06</u>	Structure (#) _____	Questel/Orbit _____
Date Completed: <u>5/8/06</u>	Bibliographic _____	Dr. Link _____
Searcher Prep. Review Time: <u>30</u>	Litigation _____	Lexis/Nexis _____
Clerical Prep. Time: _____	Fulltext _____	Sequence Systems _____
Online Time: <u>85</u>	Patent Family _____	WWW/Internet _____
	Other _____	Other (specify) _____

2

=> d his nofile

(FILE 'HOME' ENTERED AT 09:18:11 ON 08 MAY 2006)

FILE 'REGISTRY' ENTERED AT 09:18:15 ON 08 MAY 2006

L1 SCREEN 2076
 L2 STRUCTURE UPLOADED
 L3 QUE ABB=ON PLU=ON L2 AND L1
 D L2
 L4 0 SEA SSS SAM L2
 L5 15 SEA SSS FUL L2
 D SCAN

FILE 'CAPLUS' ENTERED AT 09:21:13 ON 08 MAY 2006

L6 7 SEA ABB=ON PLU=ON L5
 S L2

FILE 'REGISTRY' ENTERED AT 09:21:55 ON 08 MAY 2006

L*** DEL 0 S L2

FILE 'CAPLUS' ENTERED AT 09:21:55 ON 08 MAY 2006

L*** DEL 0 S L7
 D COST

FILE 'STNGUIDE' ENTERED AT 09:22:26 ON 08 MAY 2006

FILE 'CAPLUS' ENTERED AT 09:23:45 ON 08 MAY 2006

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 TERRY W"/AU OR "BALKO TERRY WILLIAM"/AU)
 E BUYSSE /AU
 L8 8 SEA ABB=ON PLU=ON (BUYSSE/AU OR "BUYSSE A M"/AU OR "BUYSSE A
 M M"/AU OR "BUYSSE ANN M"/AU OR "BUYSSE ANN MARIE"/AU OR
 "BUYSSE ANNE MARIE"/AU)
 E FIELDS S/AU
 L9 27 SEA ABB=ON PLU=ON ("FIELDS S"/AU OR "FIELDS S C"/AU OR
 "FIELDS STEPHEN C"/AU OR "FIELDS STEPHEN CRAIG"/AU OR "FIELDS
 STEVEN"/AU OR "FIELDS STEVEN C"/AU)
 E IRVINE N/AU
 L10 19 SEA ABB=ON PLU=ON ("IRVINE N"/AU OR "IRVINE N M"/AU OR
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 E LO W/AU
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 E LOWE C/AU
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 OR "LOWE CHRISTIANE"/AU)
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 L13 28 SEA ABB=ON PLU=ON ("RICHBURG J"/AU OR "RICHBURG JOHN"/AU OR
 "RICHBURG JOHN S"/AU OR "RICHBURG JOHN S III"/AU OR "RICHBURG
 JOHN SANDERS"/AU OR "RICHBURG JOHN SANDERS III"/AU)
 E SCHMITZER P/AU
 L14 12 SEA ABB=ON PLU=ON ("SCHMITZER P"/AU OR "SCHMITZER P R"/AU OR
 "SCHMITZER PAUL R"/AU OR "SCHMITZER PAUL RICHARD"/AU)
 L15 4 SEA ABB=ON PLU=ON L6 AND (L7 OR L8 OR L9 OR L10 OR L11 OR
 L12 OR L13 OR L14)

FILE 'STNGUIDE' ENTERED AT 09:32:36 ON 08 MAY 2006

FILE 'CAPLUS' ENTERED AT 09:35:27 ON 08 MAY 2006

E AMINOPICOLINATE/CT

L16 8 SEA ABB=ON PLU=ON (L7 AND (L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14)) OR (L8 AND (L9 OR L10 OR L11 OR L12 OR L13 OR L14)) OR (L9 AND (L10 OR L11 OR L12 OR L13 OR L14)) OR (L10 AND (L11 OR L12 OR L13 OR L14)) OR (L11 AND (L12 OR L13 OR L14)) OR (L12 AND (L13 OR L14)) OR (L13 AND L14)
D TI 1-8
L17 30 SEA ABB=ON PLU=ON AMINOPICOLINATE?/OBI
L18 72786 SEA ABB=ON PLU=ON HERBICID?/OBI
L19 3 SEA ABB=ON PLU=ON L17 AND (L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14)
L20 36 SEA ABB=ON PLU=ON L18 AND (L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14)
L21 30 SEA ABB=ON PLU=ON L20 NOT (PY>2003 OR AY>2003 OR PRY>2003)
L22 0 SEA ABB=ON PLU=ON L21 AND L17
D BIB L21 1
L23 6 SEA ABB=ON PLU=ON L17 AND L18
L24 8 SEA ABB=ON PLU=ON (L15 OR L16 OR L19)
L25 10 SEA ABB=ON PLU=ON (L6 OR L23)
L26 6 SEA ABB=ON PLU=ON L25 NOT L24

FILE 'STNGUIDE' ENTERED AT 09:46:35 ON 08 MAY 2006

FILE 'REGISTRY' ENTERED AT 10:08:55 ON 08 MAY 2006

L27 SCREEN 2076
L28 STRUCTURE UPLOADED
L29 QUE ABB=ON PLU=ON L28 AND L27
L30 0 SEA SSS SAM L28 AND L27
D QUE
L31 0 SEA SSS SAM L28
L32 16 SEA SSS FUL L28
L33 1 SEA ABB=ON PLU=ON L32 NOT L5
D SCAN

FILE 'CAPLUS' ENTERED AT 10:15:09 ON 08 MAY 2006

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L36 3 SEA ABB=ON PLU=ON L34 NOT L24
D SCAN

FILE 'BEILSTEIN' ENTERED AT 10:21:03 ON 08 MAY 2006

L37 0 SEA SSS SAM L28
L38 1 SEA SSS FUL L28
L39 1 SEA ABB=ON PLU=ON L38/COM
L40 0 SEA ABB=ON PLU=ON L39 NOT L32

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FILE 'STNGUIDE' ENTERED AT 10:26:25 ON 08 MAY 2006

FILE 'MARPAT' ENTERED AT 10:28:07 ON 08 MAY 2006

FILE 'REGISTRY' ENTERED AT 10:29:33 ON 08 MAY 2006

FILE 'CAPLUS' ENTERED AT 10:29:35 ON 08 MAY 2006

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L47 3 SEA ABB=ON PLU=ON L34 NOT (L7 OR L8 OR L9 OR L10 OR L11 OR
 L12 OR L13 OR L14)
L48 3 SEA ABB=ON PLU=ON L34 NOT L24
L49 0 SEA ABB=ON PLU=ON L48 NOT L47
L50 11 SEA ABB=ON PLU=ON (L24 OR L47 OR L48)
L51 3 SEA ABB=ON PLU=ON L34 NOT (PY>2003 OR AY>2003 OR PRY>2003)

=> file caplus

FILE 'CAPLUS' ENTERED AT 10:38:03 ON 08 MAY 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 8 May 2006 VOL 144 ISS 20

FILE LAST UPDATED: 7 May 2006 (20060507/ED)

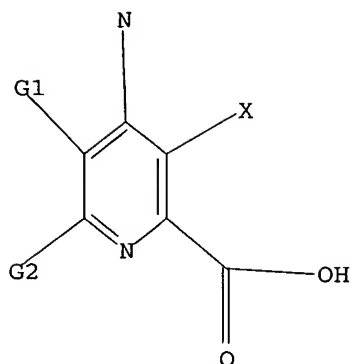
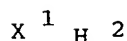
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<http://www.cas.org/infopolicy.html>

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que 124

L2 STR

Ak³Ak⁴-O

G1 [@1], [@2]

G2 [@3], [@4]

Structure attributes must be viewed using STN Express query preparation.

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L7      21 SEA FILE=CAPLUS ABB=ON PLU=ON ("BALKO T"/AU OR "BALKO T
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OR "RICHBURG JOHN SANDERS"/AU OR "RICHBURG JOHN SANDERS
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OR (L10 AND (L11 OR L12 OR L13 OR L14)) OR (L11 AND (L12 OR

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L13 OR L14)) OR (L12 AND (L13 OR L14)) OR (L13 AND L14)
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 OR L11 OR L12 OR L13 OR L14)
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=> d ibib abs hitstr l24 1-8

L24 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2006:388594 CAPLUS
 TITLE: Thieno-pyrimidine compounds having fungicidal activity
 INVENTOR(S): Brewster, William Kirkland; Klittich, Carla Jean
 Rasmussen; Balko, Terry William; Breaux,
 Nneka Tuere; Erickson, William Randal; Hunter, James
 Edward; Lowe, Christian Thomas; Ricks,
 Michael John; Siddall, Thomas Lyman; Yerkes, Carla
 Nanette; Zhu, Yuanming
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 43 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

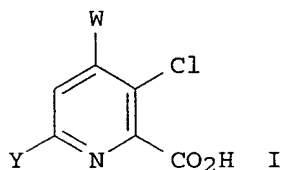
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006089370	A1	20060427	US 2005-256117	20051021
WO 2006047397	A1	20060504	WO 2005-US38145	20051021
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2004-621577P P 20041021
 AB The present invention relates to thieno[2,3-d]-pyrimidine compds. having
 fungicidal activity.

L24 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:122777 CAPLUS
 DOCUMENT NUMBER: 142:192757
 TITLE: Preparation of 6-(1,1-difluoroalkyl)-4-
 aminopicolinate derivative herbicides
 INVENTOR(S): Balko, Terry William; Fields, Stephen
 Craig; Irvine, Nicholas Martin;
 Lowe, Christian Thomas; Schmitzer, Paul
 Richard
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 10 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005032651	A1	20050210	US 2004-911683	20040804
AU 2004265309	A1	20050224	AU 2004-265309	20040804
CA 2532100	AA	20050224	CA 2004-2532100	20040804
WO 2005016887	A1	20050224	WO 2004-US25116	20040804
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1651607	A1	20060503	EP 2004-780023	20040804
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PRIORITY APPLN. INFO.:			US 2003-493555P	P 20030804
			WO 2004-US25116	W 20040804
OTHER SOURCE(S):		CASREACT 142:192757; MARPAT 142:192757		
GI				



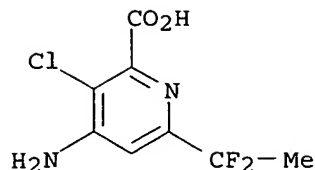
AB 6-(1,1-Difluoroalkyl)-4-aminopicolinate derivs. I (Y = 1,1-difluoroalkyl; W = NO₂, N₃, N:CR₁R₂ or NHN:CR₃R₄; R₁, R₂ = H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, alkoxy, amino, acyl, etc.; R₃, R₄ = H, alkyl, alkenyl, alkynyl, aryl or heteroaryl; :CR₃R₄ = 5- or 6-membered saturated ring) are prepared as broad-spectrum herbicides.

IT 837367-59-6P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation as herbicide)

RN 837367-59-6 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(1,1-difluoroethyl)- (9CI)
 (CA INDEX NAME)



L24 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:825101 CAPLUS

DOCUMENT NUMBER: 141:308993

TITLE: 6-Alkyl or alkenyl-4-aminopicolinates and their use as herbicides

INVENTOR(S): Balko, Terry William; Buysse, Ann Marie; Fields, Stephen Craig; Irvine, Nicholas Martin; Lo, William Chi-Leung; Lowe, Christian Thomas; Richburg, John Sanders; Schmitzer, Paul Richard

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 12 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

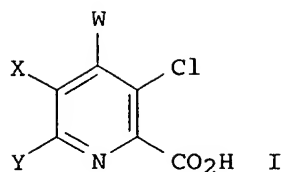
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004198608	A1	20041007	US 2004-816611	20040402
AU 2004228666	A1	20041021	AU 2004-228666	20040402
CA 2517486	AA	20041021	CA 2004-2517486	20040402
WO 2004089906	A2	20041021	WO 2004-US10358	20040402
WO 2004089906	A3	20041202		
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EP 1608624	A2	20051228	EP 2004-749733	20040402
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BR 2004008935	A	20060404	BR 2004-8935	20040402
CN 1764646	A	20060426	CN 2004-80007800	20040402
NO 2005004378	A	20051018	NO 2005-4378	20050921
PRIORITY APPLN. INFO.:			US 2003-459892P	P 20030402
			WO 2004-US10358	A 20040402

OTHER SOURCE(S): MARPAT 141:308993

GI



AB 4-Aminopyridines with alkyl or alkenyl substituents in the 6-position (I, wherein X = H, F; Y = C1-4 alkyl, C1-4-alkoxy- or thioalkoxy-substituted alkyl, or C2-3 alkenyl; and W represents NO₂, N₃, NR₁R₂, etc.; R₁ and R₂ independently = H, C1-6 alkyl, etc.) and their amine and acid derivs. are potent herbicides demonstrating a broad spectrum of weed control. Thus, Me 4-amino-3-chloro-6-ethylpyridine-2-carboxylate (II) at 250 ppm controlled cocklebur (*Xanthium strumarium*), lamb's-quarters (*Chenopodium album*), and pigweed (*Amaranthus retroflexus*) by 95, 100, and 98%, resp. (postemergent control), with no injury to corn (*Zea mays*). Preemergent control of lamb's-quarters by II at 280 ppm was 98%.

IT 767334-35-0 767334-36-1 767334-37-2

767334-38-3 767334-39-4 767334-40-7

767334-41-8

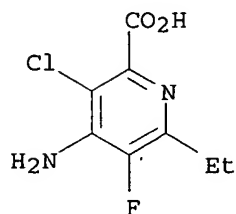
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL

(Biological study); USES (Uses)

(as herbicide with broad spectrum of weed control)

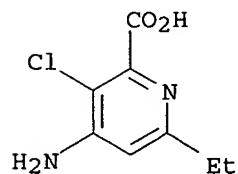
RN 767334-35-0 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-ethyl-5-fluoro- (9CI) (CA INDEX NAME)



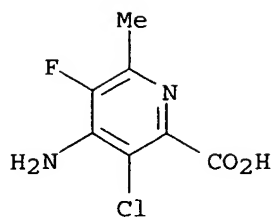
RN 767334-36-1 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-ethyl- (9CI) (CA INDEX NAME)



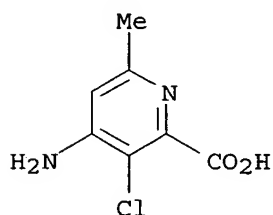
RN 767334-37-2 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-5-fluoro-6-methyl- (9CI) (CA INDEX NAME)



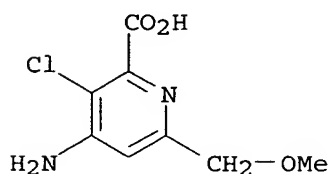
RN 767334-38-3 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-methyl- (9CI) (CA INDEX NAME)



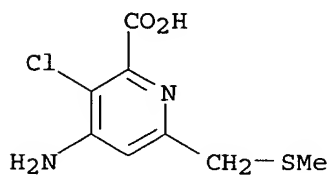
RN 767334-39-4 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(methoxymethyl)- (9CI) (CA INDEX NAME)



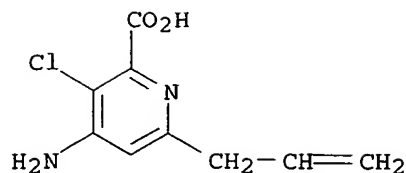
RN 767334-40-7 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-[(methylthio)methyl]- (9CI) (CA INDEX NAME)



RN 767334-41-8 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(2-propenyl)- (9CI) (CA INDEX NAME)



L24 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:117817 CAPLUS

DOCUMENT NUMBER: 138:153444

TITLE: Preparation of 6-aryl-4-aminopicolinic acids as herbicides with excellent crop selectivity

INVENTOR(S): Balko, Terry William; Buysse, Ann Marie; Epp, Jeffrey Brian; Fields, Stephen Craig; Lowe, Christian Thomas; Keese, Renee Joan; Richburg, John Sanders, III; Ruiz, James Melvin; Weimer, Monte Ray; Green, Renard Antonio; Gast, Roger Eugene; Bryan, Kristy; Irvine, Nicholas Martin; Lo, William Chi-Leung; Brewster, William Kirkland; Webster, Jeffrey Dale

PATENT ASSIGNEE(S): Dow AgroSciences, LLC, USA

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

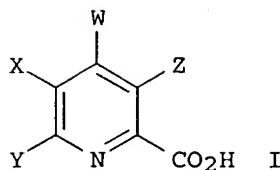
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

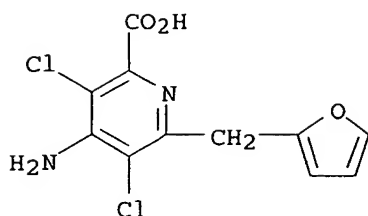
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011853	A1	20030213	WO 2002-US24120	20020730
WO 2003011853	C1	20040715		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2453623	AA	20030213	CA 2002-2453623	20020730
US 2003114311	A1	20030619	US 2002-209448	20020730
US 6784137	B2	20040831		
EP 1414814	A1	20040506	EP 2002-756794	20020730
EP 1414814	B1	20050202		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002011532	A	20040914	BR 2002-11532	20020730
CN 1551876	A	20041201	CN 2002-814816	20020730
JP 2005505523	T2	20050224	JP 2003-517045	20020730
PRIORITY APPLN. INFO.:			US 2001-308617P	P 20010730
			WO 2002-US24120	W 20020730

OTHER SOURCE(S): MARPAT 138:153444

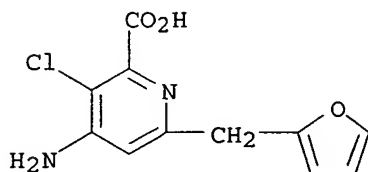
GI



- AB 6-Aryl-4-aminopicolinic acids (shown as I; variables defined below; e.g. 4-amino-3-chloro-6-(4-methylphenyl)pyridine-2-carboxylic acid) and agriculturally acceptable derivs. of the carboxylic acid group are potent herbicides demonstrating a broad spectrum of weed control. Twelve herbicidal compns. are tabulated. Although the methods of preparation are not claimed, 47 example preps. are included and >200 specific I are mentioned along with phys. and/or herbicidal properties. Post-emergent herbicidal activities are included for some I against cocklebur (*Xanthium strumarium*), lambsquarter (*Chenopodium album*), barnyard grass (*Echinochloa crus-galli*) and yellow nutsedge (*Cyperus esculentus*); selectivity to wheat and corn is also shown. Pre-emergent herbicidal activities are included for some I against lambsquarter (*Chenopodium album*), pigweed (redroot) (*Amaranthus retroflexus*), crabgrass (large) (*Digitaria sanguinalis*), and giant foxtail (*Setaria faberii*). For I: X = H, halogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 alkylthio, aryloxy, nitro, C1-C6 haloalkyl, C1-C6 haloalkoxy, thiocyanate, or cyano; Y = aryl, Ph, indanyl or naphthyl or heteroaryl (5- or 6-membered heteroarom. rings containing ≥ 1 heteroatoms which may be fused to other aromatic systems; aryl or heteroaryl group being unsubstituted or substituted with ≥ 1 substituents = halogen, hydroxy, nitro, cyano, aryloxy, formyl, C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C1-C6 alkoxy, halogenated C1-C6 alkyl, halogenated C1-C6 alkoxy, C1-C6 acyl, C1-C6 alkylthio, C1-C6 alkylsulfinyl, C1-C6 alkylsulfonyl, aryl, C1-C6 OC(O)alkyl, C1-C6 NHC(O)alkyl, C(O)OH, C1-C6 C(O)Oalkyl, C(O)NH₂, C1-C6 C(O)NHalkyl, C1-C6 C(O)N(alkyl)₂, -OCH₂CH₂-, -OCH₂CH₂CH₂-, -OCH₂O- or -OCH₂CH₂O-). Z = halogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 alkylthio, aryloxy, nitro, C1-C6 haloalkyl, C1-C6 haloalkoxy, thiocyanate, or cyano; and W = -NO₂, -N₃, -NR₁R₂, -N:CR₃R₄ or -NHN:CR₃R₄ (R₁ and R₂ = H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, aryl, heteroaryl, hydroxy, C1-C6 alkoxy, amino, C1-C6 acyl, C1-C6 carboalkoxy, C1-C6 alkylcarbonyl, C1-C6 alkylsulfonyl, C1-C6 trialkylsilyl or C1-C6 dialkyl phosphonyl or R₁ and R₂ taken together with N = 5- or 6-membered (un)saturated ring which may contain addnl. O, S or N heteroatoms; and R₃ and R₄ = H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, aryl or heteroaryl or R₃ and R₄ taken together with :C = a 5- or 6-membered saturated ring).
- IT 496852-28-9P, 4-Amino-3,5-dichloro-6-(2-furfuryl)pyridine-2-carboxylic acid 496852-30-3P, 4-Amino-3-chloro-6-(2-furfuryl)pyridine-2-carboxylic acid
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 6-aryl-4-aminopicolinic acids as herbicides with excellent crop selectivity)
- RN 496852-28-9 CAPLUS
- CN 2-Pyridinecarboxylic acid, 4-amino-3,5-dichloro-6-(2-furanylmethyl)- (9CI)
 (CA INDEX NAME)



RN 496852-30-3 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(2-furanylmethyl)- (9CI)
(CA INDEX NAME)REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:391671 CAPLUS

DOCUMENT NUMBER: 136:385944

TITLE: Preparation of arylmethylsulfonylalkylcarbamates as
agrochemical fungicides.INVENTOR(S): Ricks, Michael John; Klittich, Carla Jean Rasmussen;
Cetusic, Jeannie Rachel Phillips; Iamauti, Marilene
Tenguan; Morrison, Irene Mae; Sullenberger, Michael
Thomas; **Lo, William Chi-leung; Buysse,**
Ann Marie; Rieder, Brent Rieder; Mathieson, John
Todd; Olson, Monica Britt

PATENT ASSIGNEE(S): Dow Agrosciences LLC, USA

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040431	A2	20020523	WO 2001-US44032	20011116
WO 2002040431	A3	20020801		
WO 2002040431	B1	20030320		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SE,
SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2428733	AA	20020523	CA 2001-2428733	20011116
AU 2002028640	A5	20020527	AU 2002-28640	20011116
EP 1341534	A2	20030910	EP 2001-989756	20011116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001015452	A	20031223	BR 2001-15452	20011116
JP 2004513930	T2	20040513	JP 2002-542761	20011116
ZA 2003003819	A	20040517	ZA 2003-3819	20011116
NZ 525744	A	20041029	NZ 2001-525744	20011116
US 2004030189	A1	20040212	US 2003-415722	20030609
US 6815556	B2	20041109		

PRIORITY APPLN. INFO.:

US 2000-249653P	P	20001117
WO 2001-US44032	W	20011116

OTHER SOURCE(S): MARPAT 136:385944

AB ZNR5CHR4CR2R3SO2CHR1A [R1 = F, Cl, Br, CN, alkyl, alkenyl, alkynyl, haloalkyl, alkoxyalkyl, cycloalkyl, cycloalkenyl, CH2COR5, CH2CN; R2, R3 = H, Me, F, Cl; R4 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heteroaryl; R5 = H, OR7, alkyl; R6 = H, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, (substituted) aryl, heteroaryl, OR7, N(R7)2, SR7; R7 = H, alkyl, alkenyl, alkynyl, haloalkyl, (substituted) aryl, heteroaryl; A = (substituted) aryl, heteroaryl; Z = COR6, C(S)R6, P(O)(R6)2, P(S)(R6)2; n = 0-2], were prepared. Thus, 4-chlorobenzylthiol was stirred with NaH in THF/DMF; (S)-isopropoxycarbonylvalinol tosylate was added followed by stirring for 3 h to give the sulfide, which in THF at -78° was treated with BuLi and di-tert-Bu dicarbonate followed by warming to room temperature and stirring for 4 h to give the N-protected sulfide. This in CH2Cl2 was treated with N-chlorosuccinimide under ice cooling followed by stirring for 4 h while warming to room temperature; MCPBA was added followed by 2 h stirring and workup to give a residue. This was treated with CF3CO2H in CH2Cl2 to give iso-Pr 1-[[[chloro(4-chlorophenyl)methyl]sulfonyl]methyl]-2-methylpropyl carbamate. The latter at 100 ppm gave 90-100% control of *Phytophthora infestans* on tomatoes.

L24 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:526059 CAPLUS

DOCUMENT NUMBER: 135:107254

TITLE: Preparation of 4-aminopicolinates as herbicides

INVENTOR(S): Fields, Stephen Craig; Alexander, Anita
 Lenora; Balko, Terry William; Bjelk, Leslie
 Anne; Buysse, Ann Marie; Keese, Renee Joan;
 Krumel, Karl Leopold; Lo, William Chi-Leung;
 Lowe, Christian Thomas; Richburg, John
 Sanders; Ruiz, James Melvin

PATENT ASSIGNEE(S): Dow Agrosiences LLC, USA

SOURCE: PCT Int. Appl., 86 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

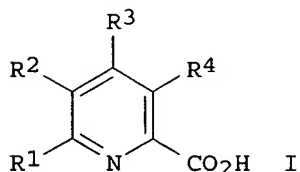
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051468	A1	20010719	WO 2001-US1177	20010112
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE,				

SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW,
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2396874 AA 20010719 CA 2001-2396874 20010112
 US 6297197 B2 20011002 US 2001-760111 20010112
 US 2001047099 A1 20011129
 BR 2001007649 A 20021008 BR 2001-7649 20010112
 EP 1246802 A1 20021009 EP 2001-942359 20010112
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 AU 760286 B2 20030508 AU 2001-29453 20010112
 JP 2003519685 T2 20030624 JP 2001-551850 20010112
 NZ 520244 A 20030725 NZ 2001-520244 20010112
 RU 2220959 C1 20040110 RU 2002-121652 20010112
 EP 1498413 A1 20050119 EP 2004-18297 20010112
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI, CY, TR
 ZA 2002005557 A 20030711 ZA 2002-5557 20020711
 NO 2002003370 A 20020819 NO 2002-3370 20020712
 PRIORITY APPLN. INFO.: US 2000-176720P P 20000114
 EP 2001-942359 A3 20010112
 WO 2001-US1177 W 20010112
 OTHER SOURCE(S): MARPAT 135:107254
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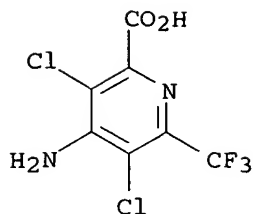


AB Title compds. [I; R¹ = halo, alkoxy, aryloxy, CF₃, etc.; R² = H, halo, alkoxy, aryloxy, NO₂, etc.; R³ = NO₂, N₃, (un)substituted amino, -N:CH₂, -NHN:CH₂; R⁴ = halo, alkoxy, alkylthio, aryloxy, NO₂] were prepared. Thus, Me 6-bromo-3-chloropyridine-2-carboxylate was nitrated and the reduced product saponified to give I (R¹ = Br, R² = H, R³ = NH₂, R⁴ = Cl). Data for biol. activity of I were given.

IT 350602-28-7P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 4-aminopicolinate as herbicides)

RN 350602-28-7 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3,5-dichloro-6-(trifluoromethyl)- (9CI)
 (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:282127 CAPLUS

DOCUMENT NUMBER: 133:54818

TITLE: Ribofuranosyl Triazolone: A Natural Product Herbicide with Activity on Adenylosuccinate Synthetase Following Phosphorylation

AUTHOR(S): Schmitzer, Paul R.; Graupner, Paul R.; Chapin, Eleanor L.; Fields, Steven C.; Gilbert, Jeff R.; Gray, Jim A.; Peacock, Cathy L.; Gerwick, B. Clifford

CORPORATE SOURCE: Dow AgroSciences, Indianapolis, IN, 46268, USA
SOURCE: Journal of Natural Products (2000), 63(6), 777-781
CODEN: JNPRDF; ISSN: 0163-3864

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 2,4-Dihydro-4-(β -D-ribofuranosyl)-1,2,4(3H)-triazol-3-one (I) was identified as the principal phytotoxic component of a fermentation broth derived

from an Actinomadura. I was also synthesized. Metabolite reversal studies suggested the target site was adenylosuccinate synthetase, which was confirmed by direct measurement of the activity of the 5'-phosphorylated derivative on the isolated enzyme.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:569993 CAPLUS

DOCUMENT NUMBER: 131:351478

TITLE: Total synthesis of (\pm)-8'-trifluoromethyl abscisic acid

AUTHOR(S): Balko, Terry W.; Fields, Stephen C.; Webster, Jeffery D.

CORPORATE SOURCE: Discovery Research, Dow AgroSciences, Indianapolis, IN, 46268-1054, USA

SOURCE: Tetrahedron Letters (1999), 40(35), 6347-6351
CODEN: TELEAY; ISSN: 0040-4039

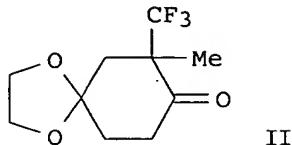
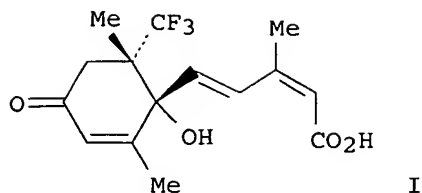
PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 131:351478

GI

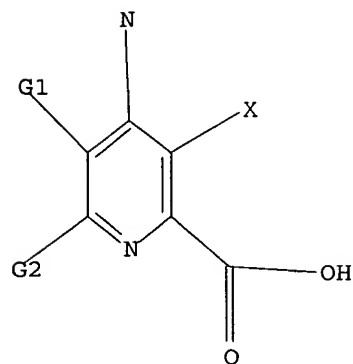
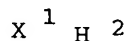


AB While 8'-trifluoromethylabscisic acid (I) was known to be one of the most active and stable analogs tested in assays for ABA-like activity, a thorough evaluation of its biol. properties was limited by compound availability. The current synthesis, which includes the preparation of a previously unknown key intermediate 2-methyl-2-trifluoromethyl-1,4-cyclohexanedione-mono ethylene ketal (II), has been accomplished in 14 steps and 3% yield. The key fluorinated ketal intermediate II was prepared in six steps and 20% yield.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d que 134

L28 STR



Ak³

Ak—O⁴

G1 [@1], [@2]

G2 [@3], [@4]

Structure attributes must be viewed using STN Express query preparation.

L32 16 SEA FILE=REGISTRY SSS FUL L28

L34 7 SEA FILE=CAPLUS ABB=ON PLU=ON L32

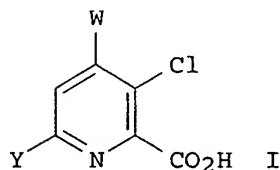
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L34 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:122777 CAPLUS
 DOCUMENT NUMBER: 142:192757
 TITLE: Preparation of 6-(1,1-difluoroalkyl)-4-aminopicolinate derivative herbicides
 INVENTOR(S): Balko, Terry William; Fields, Stephen Craig; Irvine, Nicholas Martin; Lowe, Christian Thomas; Schmitzer, Paul Richard
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 10 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

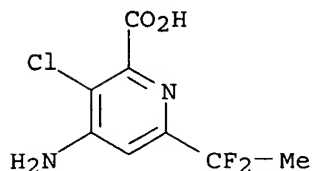
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005032651	A1	20050210	US 2004-911683	20040804
AU 2004265309	A1	20050224	AU 2004-265309	20040804
CA 2532100	AA	20050224	CA 2004-2532100	20040804
WO 2005016887	A1	20050224	WO 2004-US25116	20040804
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1651607	A1	20060503	EP 2004-780023	20040804
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
PRIORITY APPLN. INFO.:			US 2003-493555P	P 20030804
			WO 2004-US25116	W 20040804

OTHER SOURCE(S): CASREACT 142:192757; MARPAT 142:192757
 GI



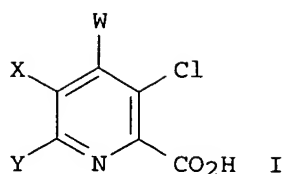
AB 6-(1,1-Difluoroalkyl)-4-aminopicolinate derivs. I (Y = 1,1-difluoroalkyl; W = NO₂, N₃, N:CR₁R₂ or NHN:CR₃R₄; R₁, R₂ = H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, alkoxy, amino, acyl, etc.; R₃, R₄ = H, alkyl, alkenyl, alkynyl, aryl or heteroaryl; :CR₃R₄ = 5- or 6-membered saturated ring) are prepared as broad-spectrum herbicides.
 IT 837367-59-6P
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation as herbicide)

RN 837367-59-6 CAPLUS
 CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(1,1-difluoroethyl)- (9CI)
 (CA INDEX NAME)

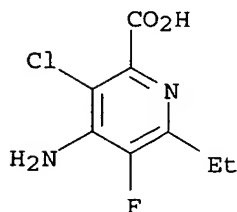


L34 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:825101 CAPLUS
 DOCUMENT NUMBER: 141:308993
 TITLE: 6-Alkyl or alkenyl-4-aminopicolinates and their use as herbicides
 INVENTOR(S): Balko, Terry William; Buysse, Ann Marie; Fields, Stephen Craig; Irvine, Nicholas Martin; Lo, William Chi-Leung; Lowe, Christian Thomas; Richburg, John Sanders; Schmitzer, Paul Richard
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 12 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

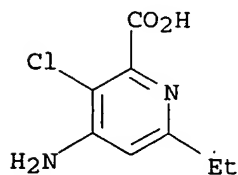
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004198608	A1	20041007	US 2004-816611	20040402
AU 2004228666	A1	20041021	AU 2004-228666	20040402
CA 2517486	AA	20041021	CA 2004-2517486	20040402
WO 2004089906	A2	20041021	WO 2004-US10358	20040402
WO 2004089906	A3	20041202		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1608624	A2	20051228	EP 2004-749733	20040402
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004008935	A	20060404	BR 2004-8935	20040402
CN 1764646	A	20060426	CN 2004-80007800	20040402
NO 2005004378	A	20051018	NO 2005-4378	20050921
PRIORITY APPLN. INFO.:			US 2003-459892P	P 20030402
			WO 2004-US10358	A 20040402
OTHER SOURCE(S):		MARPAT 141:308993		
GI				



- AB 4-Aminopicolinates with alkyl or alkenyl substituents in the 6-position (I, wherein X = H, F; Y = C1-4 alkyl, C1-4-alkoxy- or thioalkoxy-substituted alkyl, or C2-3 alkenyl; and W represents NO₂, N₃, NR₁R₂, etc.; R₁ and R₂ independently = H, C1-6 alkyl, etc.) and their amine and acid derivs. are potent herbicides demonstrating a broad spectrum of weed control. Thus, Me 4-amino-3-chloro-6-ethylpyridine-2-carboxylate (II) at 250 ppm controlled cocklebur (*Xanthium strumarium*), lamb's-quarters (*Chenopodium album*), and pigweed (*Amaranthus retroflexus*) by 95, 100, and 98%, resp. (postemergent control), with no injury to corn (*Zea mays*). Preemergent control of lamb's-quarters by II at 280 ppm was 98%.
- IT 767334-35-0 767334-36-1 767334-37-2
767334-38-3 767334-39-4 767334-40-7
767334-41-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(as herbicide with broad spectrum of weed control)
- RN 767334-35-0 CAPLUS
- CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-ethyl-5-fluoro- (9CI). (CA INDEX NAME)

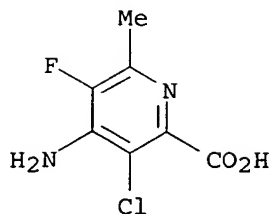


- RN 767334-36-1 CAPLUS
- CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-ethyl- (9CI) (CA INDEX NAME)



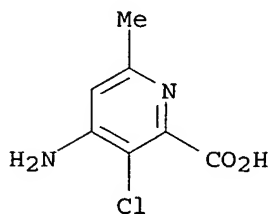
- RN 767334-37-2 CAPLUS
- CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-5-fluoro-6-methyl- (9CI) (CA INDEX NAME)

INDEX NAME)



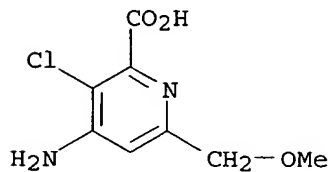
RN 767334-38-3 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-methyl- (9CI) (CA INDEX NAME)



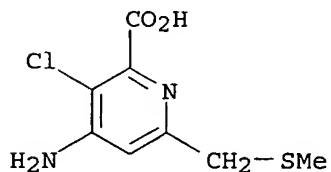
RN 767334-39-4 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(methoxymethyl)- (9CI) (CA INDEX NAME)



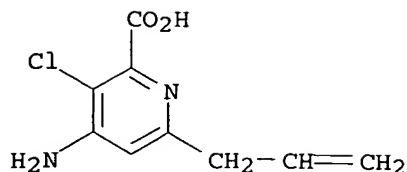
RN 767334-40-7 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-[(methylthio)methyl]- (9CI) (CA INDEX NAME)



RN 767334-41-8 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(2-propenyl)- (9CI) (CA INDEX NAME)



L34 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:117817 CAPLUS

DOCUMENT NUMBER: 138:153444

TITLE: Preparation of 6-aryl-4-aminopicolinic acids as herbicides with excellent crop selectivity

INVENTOR(S): Balko, Terry William; Buysse, Ann Marie; Epp, Jeffrey Brian; Fields, Stephen Craig; Lowe, Christian Thomas; Keese, Renee Joan; Richburg, John Sanders, III; Ruiz, James Melvin; Weimer, Monte Ray; Green, Renard Antonio; Gast, Roger Eugene; Bryan, Kristy; Irvine, Nicholas Martin; Lo, William Chi-Leung; Brewster, William Kirkland; Webster, Jeffrey Dale

PATENT ASSIGNEE(S): Dow AgroSciences, LLC, USA

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

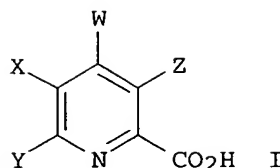
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

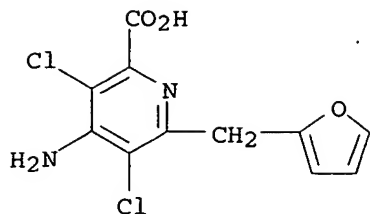
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011853	A1	20030213	WO 2002-US24120	20020730
WO 2003011853	C1	20040715		
-W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2453623	AA	20030213	CA 2002-2453623	20020730
US 2003114311	A1	20030619	US 2002-209448	20020730
US 6784137	B2	20040831		
EP 1414814	A1	20040506	EP 2002-756794	20020730
EP 1414814	B1	20050202		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002011532	A	20040914	BR 2002-11532	20020730
CN 1551876	A	20041201	CN 2002-814816	20020730
JP 2005505523	T2	20050224	JP 2003-517045	20020730
PRIORITY APPLN. INFO.:			US 2001-308617P	P 20010730
			WO 2002-US24120	W 20020730

OTHER SOURCE(S): MARPAT 138:153444

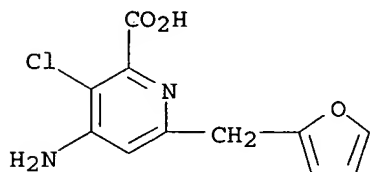
GI



- AB 6-Aryl-4-aminopicolinic acids (shown as I; variables defined below; e.g. 4-amino-3-chloro-6-(4-methylphenyl)pyridine-2-carboxylic acid) and agriculturally acceptable derivs. of the carboxylic acid group are potent herbicides demonstrating a broad spectrum of weed control. Twelve herbicidal compns. are tabulated. Although the methods of preparation are not claimed, 47 example preps. are included and >200 specific I are mentioned along with phys. and/or herbicidal properties. Post-emergent herbicidal activities are included for some I against cocklebur (*Xanthium strumarium*), lambsquarter (*Chenopodium album*), barnyard grass (*Echinochloa crus-galli*) and yellow nutsedge (*Cyperus esculentus*); selectivity to wheat and corn is also shown. Pre-emergent herbicidal activities are included for some I against lambsquarter (*Chenopodium album*), pigweed (redroot) (*Amaranthus retroflexus*), crabgrass (large) (*Digitaria sanguinalis*), and giant foxtail (*Setaria faberii*). For I: X = H, halogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 alkylthio, aryloxy, nitro, C1-C6 haloalkyl, C1-C6 haloalkoxy, thiocyanate, or cyano; Y = aryl, Ph, indanyl or naphthyl or heteroaryl (5- or 6-membered heteroarom. rings containing ≥ 1 heteroatoms which may be fused to other aromatic systems; aryl or heteroaryl group being unsubstituted or substituted with ≥ 1 substituents = halogen, hydroxy, nitro, cyano, aryloxy, formyl, C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkynyl, C1-C6 alkoxy, halogenated C1-C6 alkyl, halogenated C1-C6 alkoxy, C1-C6 acyl, C1-C6 alkylthio, C1-C6 alkylsulfinyl, C1-C6 alkylsulfonyl, aryl, C1-C6 OC(O)alkyl, C1-C6 NHC(O)alkyl, C(O)OH, C1-C6 C(O)Oalkyl, C(O)NH₂, C1-C6 C(O)NHalkyl, C1-C6 C(O)N(alkyl)₂, -OCH₂CH₂-, -OCH₂CH₂CH₂-, -OCH₂O- or -OCH₂CH₂O-). Z = halogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 alkylthio, aryloxy, nitro, C1-C6 haloalkyl, C1-C6 haloalkoxy, thiocyanate, or cyano; and W = -NO₂, -N₃, -NR₁R₂, -N:CR₃R₄ or -NHN:CR₃R₄ (R₁ and R₂ = H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, aryl, heteroaryl, hydroxy, C1-C6 alkoxy, amino, C1-C6 acyl, C1-C6 carboalkoxy, C1-C6 alkylcarbonyl, C1-C6 alkylsulfonyl, C1-C6 trialkylsilyl or C1-C6 dialkyl phosphonyl or R₁ and R₂ taken together with N = 5- or 6-membered (un)saturated ring which may contain addnl. O, S or N heteroatoms; and R₃ and R₄ = H, C1-C6 alkyl, C3-C6 alkenyl, C3-C6 alkynyl, aryl or heteroaryl or R₃ and R₄ taken together with :C = a 5- or 6-membered saturated ring).
- IT 496852-28-9P, 4-Amino-3,5-dichloro-6-(2-furfuryl)pyridine-2-carboxylic acid 496852-30-3P, 4-Amino-3-chloro-6-(2-furfuryl)pyridine-2-carboxylic acid
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 6-aryl-4-aminopicolinic acids as herbicides with excellent crop selectivity)
- RN 496852-28-9 CAPLUS
- CN 2-Pyridinecarboxylic acid, 4-amino-3,5-dichloro-6-(2-furanylmethyl)- (9CI)
 (CA INDEX NAME)



RN 496852-30-3 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3-chloro-6-(2-furanylmethyl)- (9CI)
(CA INDEX NAME)REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:526059 CAPLUS

DOCUMENT NUMBER: 135:107254

TITLE: Preparation of 4-aminopicolinates as herbicides

INVENTOR(S): Fields, Stephen Craig; Alexander, Anita Lenora; Balko,
Terry William; Bjelk, Leslie Anne; Buysse, Ann Marie;
Keese, Renee Joan; Krumel, Karl Leopold; Lo, William
Chi-Leung; Lowe, Christian Thomas; Richburg, John
Sanders; Ruiz, James Melvin

PATENT ASSIGNEE(S): Dow Agrosiences LLC, USA

SOURCE: PCT Int. Appl., 86 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

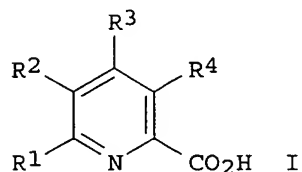
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051468	A1	20010719	WO 2001-US1177	20010112
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2396874	AA	20010719	CA 2001-2396874	20010112
US 6297197	B2	20011002	US 2001-760111	20010112
US 2001047099	A1	20011129		
BR 2001007649	A	20021008	BR 2001-7649	20010112

EP 1246802 A1 20021009 EP 2001-942359 20010112
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 AU 760286 B2 20030508 AU 2001-29453 20010112
 JP 2003519685 T2 20030624 JP 2001-551850 20010112
 NZ 520244 A 20030725 NZ 2001-520244 20010112
 RU 2220959 C1 20040110 RU 2002-121652 20010112
 EP 1498413 A1 20050119 EP 2004-18297 20010112
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI, CY, TR
 ZA 2002005557 A 20030711 ZA 2002-5557 20020711
 NO 2002003370 A 20020819 NO 2002-3370 20020712
 PRIORITY APPLN. INFO.: US 2000-176720P P 20000114
 EP 2001-942359 A3 20010112
 WO 2001-US1177 W 20010112
 OTHER SOURCE(S): MARPAT 135:107254
 GI

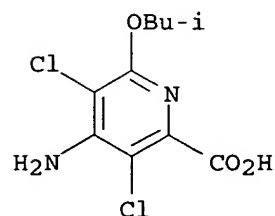


AB Title compds. [I; R₁ = halo, alkoxy, aryloxy, CF₃, etc.; R₂ = H, halo, alkoxy, aryloxy, NO₂, etc.; R₃ = NO₂, N₃, (un)substituted amino, -N:CH₂, -NHN:CH₂; R₄ = halo, alkoxy, alkylthio, aryloxy, NO₂] were prepared. Thus, Me 6-bromo-3-chloropyridine-2-carboxylate was nitrated and the reduced product saponified to give I (R₁ = Br, R₂ = H, R₃ = NH₂, R₄ = Cl). Data for biol. activity of I were given.

IT 350601-91-1P 350602-28-7P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 4-aminopicolinates as herbicides)

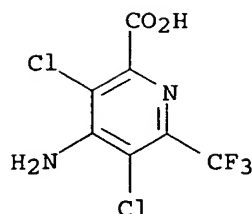
RN 350601-91-1 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3,5-dichloro-6-(2-methylpropoxy)- (9CI)
 (CA INDEX NAME)



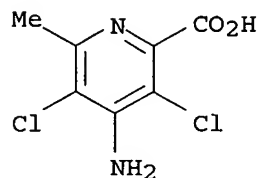
RN 350602-28-7 CAPLUS

CN 2-Pyridinecarboxylic acid, 4-amino-3,5-dichloro-6-(trifluoromethyl)- (9CI)
 (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:56246 CAPLUS
 DOCUMENT NUMBER: 80:56246
 TITLE: Poultry manure phytotoxicity
 AUTHOR(S): Minchinton, I. R.; Jones, D. L.; Sang, J. P. L.
 CORPORATE SOURCE: Div. Agric. Chem., Melbourne, Australia
 SOURCE: Journal of the Science of Food and Agriculture (1973), 24(11), 1437-48
 CODEN: JSFAAE; ISSN: 0022-5142
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Phytotoxicity of poultry deep litter manure was due to 4-amino-3,5-dichloro-6-methylpicolinic acid (I) [50978-41-1]. I is probably a metabolite of 4-amino-3,5-dichloro-2,6-lutidine (II) [50978-40-0], an impurity in the clopidol [2971-90-6] used in feeds to control coccidiosis.
 IT 50978-41-1
 RL: BIOL (Biological study)
 (of poultry manure, phytotoxicity in relation to)
 RN 50978-41-1 CAPLUS
 CN 2-Pyridinecarboxylic acid, 4-amino-3,5-dichloro-6-methyl- (9CI) (CA INDEX NAME)



L34 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:14855 CAPLUS
 DOCUMENT NUMBER: 80:14855
 TITLE: Polychloro derivatives of dicarboxy pyridines
 INVENTOR(S): Bimber, Russel M.; Schuldt, Paul H.
 PATENT ASSIGNEE(S): Diamond Shamrock Corp.
 SOURCE: U.S., 8 pp. Division of U.S. 3,637,716 (CA 76;126800y).
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3766195	A	19731016	US 1971-170282	19710809
US 3637716	A	19720125	US 1969-840484	19690709

PRIORITY APPLN. INFO.:
 US 1969-840484 A3 19690709

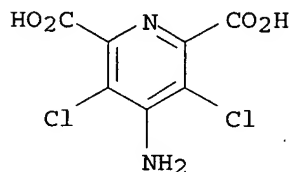
GI For diagram(s), see printed CA Issue.

AB Pesticidal chloropyridinecarboxylic acids [I, Rn = 2-, 3-, 4-CO₂H, 2,4-, 2,6-, 3,5-(CO₂H)₂, R1 = Cl], their NH₄⁺ and K salts and some 2- and 4-NH₂ derivs. were prepared The acids were prepared by oxidation of the corresponding chlorocyanopyridines with 80% H₂SO₄, which in turn were treated with suitable reagents to give the other derivs.

IT 35592-27-9P 35592-35-9P 35592-37-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

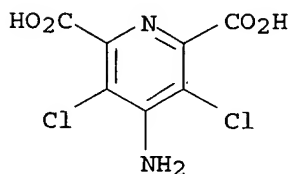
RN 35592-27-9 CAPLUS

CN 2,6-Pyridinedicarboxylic acid, 4-amino-3,5-dichloro- (9CI) (CA INDEX NAME)



RN 35592-35-9 CAPLUS

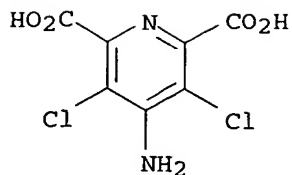
CN 2,6-Pyridinedicarboxylic acid, 4-amino-3,5-dichloro-, monopotassium salt (9CI) (CA INDEX NAME)



● K

RN 35592-37-1 CAPLUS

CN 2,6-Pyridinedicarboxylic acid, 4-amino-3,5-dichloro-, dipotassium salt (9CI) (CA INDEX NAME)



● 2 K

L34 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1972:126800 CAPLUS

DOCUMENT NUMBER: 76:126800

TITLE: Polychloro derivatives of mono- and dicarboxypyridines as pesticides and as chemical intermediates

INVENTOR(S): Bimber, Russell M.; Schuldt, Paul H.

SOURCE: U.S., 8 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3637716	A	19720125	US 1969-840484	19690709
US 3766195	A	19731016	US 1971-170282	19710809
			US 1969-840484	A3 19690709

PRIORITY APPLN. INFO.:

GI For diagram(s), see printed CA Issue.

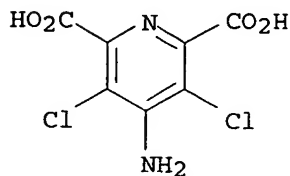
AB Pesticides (I, R1 = Cl, CO2H, R2 = Cl, NH2; II, R1 = Cl, CO2H, NH2, R2 = Cl, CO2H; III) were prepared by hydrolysis of nitriles with H2SO4. Thus, tetrachloro-2-cyanopyridine treated with H2SO4 gave tetrachloropicolinic acid (II, R1 = R2 = Cl). Similarly prepared were 24 addnl. I, II, and III, including some of their acid chlorides, Me esters, and K and NH4+ salts. Trichloro-dinicotinoyl dichloride (I (R1 = CO2H, R2 = Cl) diacid chloride) at 500 ppm killed 75% Tetranychus species and 40% Musca domestica (housefly). Pesticidal and herbicidal tests for other I, II, III, etc. are given.

IT 35592-27-9P 35592-35-9P 35592-37-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

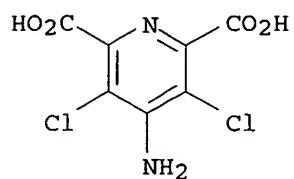
RN 35592-27-9 CAPLUS

CN 2,6-Pyridinedicarboxylic acid, 4-amino-3,5-dichloro- (9CI) (CA INDEX NAME)



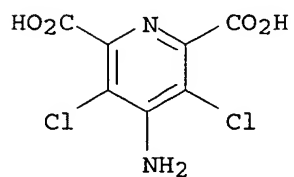
RN 35592-35-9 CAPLUS

CN 2,6-Pyridinedicarboxylic acid, 4-amino-3,5-dichloro-, monopotassium salt
(9CI) (CA INDEX NAME)



● K

RN 35592-37-1 CAPLUS
CN 2,6-Pyridinedicarboxylic acid, 4-amino-3,5-dichloro-, dipotassium salt
(9CI) (CA INDEX NAME)



● 2 K